REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 101-90 August 1, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – MAY 1990

(Values in Millions of U.S. Dollars)

	May 1990	Apr. 1990	Average Feb.-Apr.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 46.5	$ 43.6	$ 51.9	$263.3	$178.1	47.8%
Imports	$125.0	$155.0	$135.7	$705.7	$762.0	(7.4%)
Balance	($ 78.5)	($111.4)	($ 83.8)	($442.4)	($583.9)	(24.2%)
METAL FORMING MACHINE TOOLS						
Exports	$ 38.9	$ 41.9	$ 38.8	$197.0	$201.3	(2.1%)
Imports	$ 34.8	$ 39.4	$ 36.5	$187.0	$244.0	(23.4%)
Balance	$ 4.1	$ 2.5	$ 2.3	$ 10.0	($ 42.7)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 85.4	$ 85.5	$ 90.6	$460.3	$379.4	21.3%
Imports	$159.8	$194.4	$172.2	$892.7	$1,005.9	(11.3%)
Balance	($ 74.4)	($108.9)	($ 81.6)	($432.4)	($626.5)	(31.0%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 24.0	$ 28.7	$ 30.9	$152.7	$ 90.8	68.2%
Imports	$ 79.9	$113.8	$ 96.2	$487.6	$527.9	(7.6%)
Balance	($ 55.9)	($ 85.1)	($ 65.3)	($334.9)	($437.1)	(23.4%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$166.9	$148.0	$149.5	$764.9	N.A.	N.A.
Imports	$152.6	$180.4	$165.1	$839.9	N.A.	N.A.
Balance	$ 14.3	($ 32.4)	($ 15.6)	($ 75.0)	N.A.	N.A.

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

• U.S. metal cutting machine tool exports rose slightly in May over April, while metal forming exports fell about the same amount.

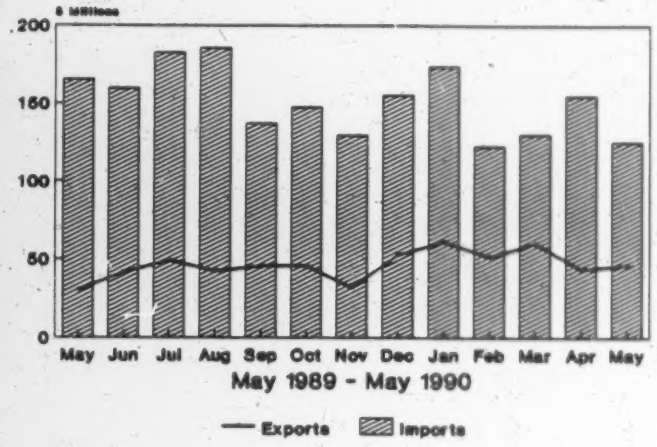
• Machine tool imports in May were 18% lower than April at $159.8 million, led by a $30 million drop in metal cutting machine tool imports. Year-to-date imports are down 11% over 1989.

• Year-to-date U.S. exports of numerically controlled machine tools ($152.7 million) are 68% higher in 1990 than 1989. Imports of NC machines are down 8% to $487.6 million.

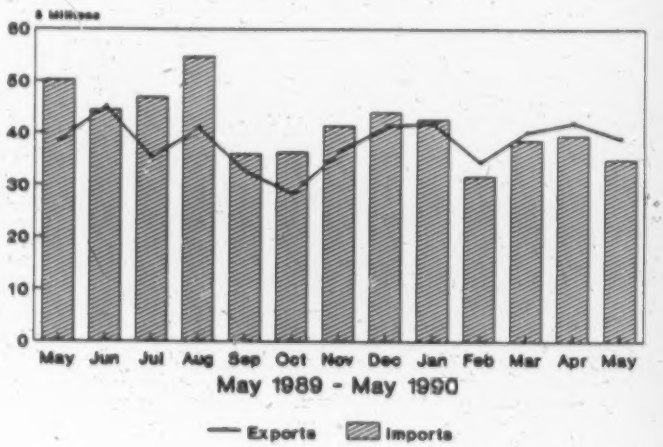
7901 WESTPARK DRIVE, McLEAN, VIRGINIA 22102-4269 / PHONE (703) 893-2900 / TLX: 353819 / FAX (703)893-1151

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

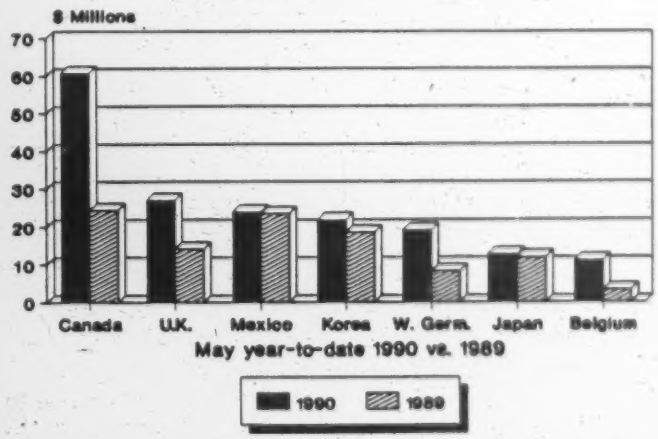
Exports

- Year-to-date U.S. metal cutting exports are up 48% over 1989. Leading export markets include Canada ($60.7 million, up 150% over 1989), the United Kingdom ($26.9 million, up 90%) and Mexico ($23.9 million, up 2%).

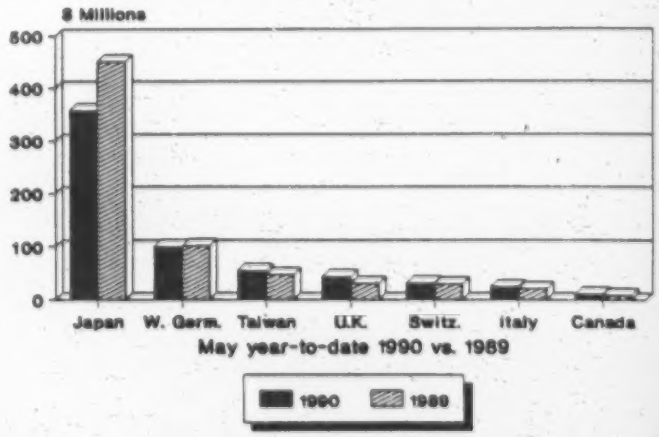
- Exports in May were up 7% over April to $46.5 million, paced by a rebound in gear cutting machine exports from $0.3 million to $3.9 million. Exports of lathes fell from $7.9 million in April to $5.6 million in May.

- Year-to-date 1990 metal cutting machine tool exports to West Germany of $19.0 million are more than double the 1989 year-to-date level. In addition, in May a non-NC grinding machine valued at $0.2 million was exported to Bulgaria, marking the first U.S. machine tool exported to that country since June 1989.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• U.S. metal cutting imports fell 19% in May from April to $125.0 million. The average for the previous three months: $135.7 million.

• Year-to-date metal cutting imports from Japan are 21% lower than last year. In 1990 through May, imports of machining centers from Japan are down from 929 units to 850 units, but up in value from $110.4 million to $122.1 million. Imports of Japanese NC lathes fell from 1,562 to 1,241 units and from $151.2 million to $122.9 million in value.

• In May, imports of machining centers fell to $21.4 million (from $49.0 million in April), the lowest monthly total since October 1988.

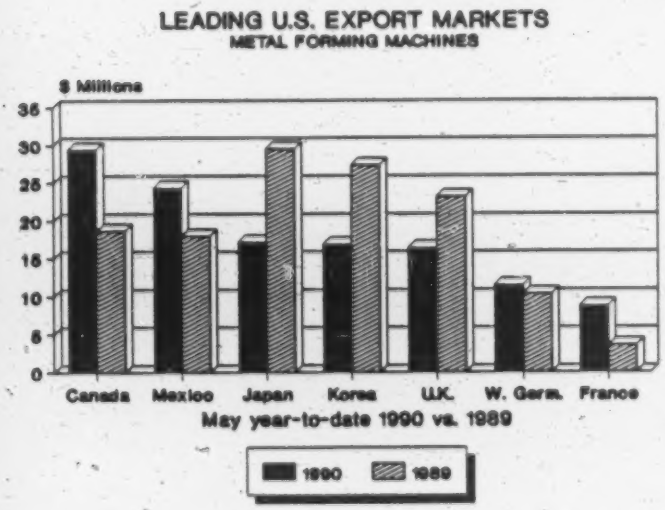
METAL FORMING MACHINE TOOLS

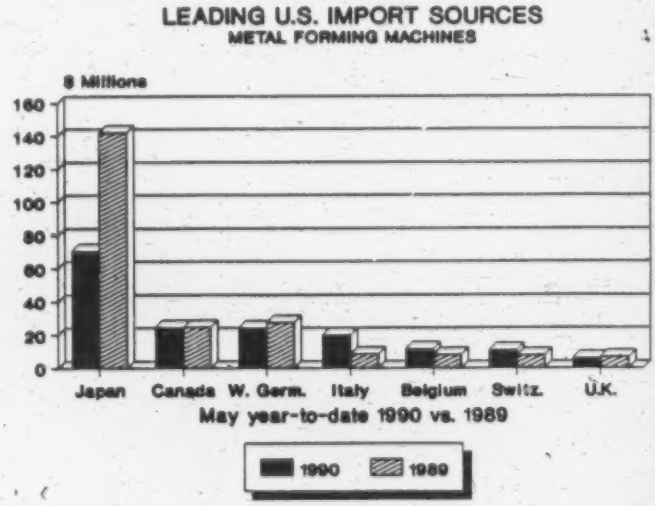
Exports

• U.S. metal forming machine tool exports fell 7% in May to $38.9 million, slightly less than the average so far in 1990 of $39.4 million. Year-to-date metal forming exports are down 2% from 1989.

• U.S. exports of punching and shearing machines were $6.6 million in May, up from $3.8 million in April. The year-to-date total is $30.1 million, 19% higher than 1989.

• Canada remains by far the leading U.S. metal forming export market at $29.4 million, up from $18.6 million in 1989. Other leading markets: Mexico ($24.3 million, up 35% over 1989), Japan ($17.2 million, down 42%) and South Korea ($16.9 million, down 38%.)





Imports

• Metal forming imports dropped to $34.8 million in May from $39.4 million in April. The average monthly total so far in 1990: $37.4 million.

• Year-to-date imports are down 23% from 1989. The big loser so far in 1990: Japan ($70.8 million in 1990 vs. $142.3 million in 1989). The big gainer so far in 1990: Italy ($20.2 million in 1990 vs. $8.6 million in 1989.)

• Imports of presses in May fell to $4.2 million from $9.5 million in April. The year-to-date total for imports of presses is $28.6 million, down from $75.9 million at this time last year.

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of machine tool parts and accessories totalled $61.8 million in May. The average for January-April: $61.1 million. Exports of parts for working rubber or plastics were $27.1 million in May, up from $22.0 million in April.

• U.S. exports of industrial process control instruments totalled $3.3 million in May. The monthly average for 1990: $3.3 million.

• U.S. exports of blow molding machines reached $5.2 million in May, up from $3.5 million in April and higher than the 1990 monthly average of $3.4 million. The largest U.S. export markets for blow molding machines in 1990: Japan ($4.8 million), Mexico ($3.6 million) and the United Kingdom ($1.6 million).

Imports

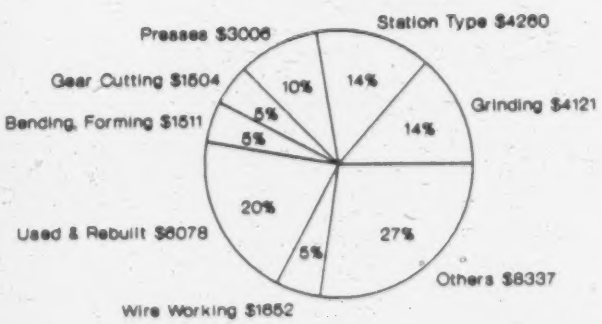
• U.S. imports of numerical controls for controlling machine tools rose to $7.0 million in May from $5.2 million in April. The year-to-date monthly average: $4.6 million.

• Imports of machine tool parts and accessories were $43.1 million in May, down from $46.0 million in April. Imports of parts for working rubber or plastics were $25.3 million in May, down from $33.8 million in April.

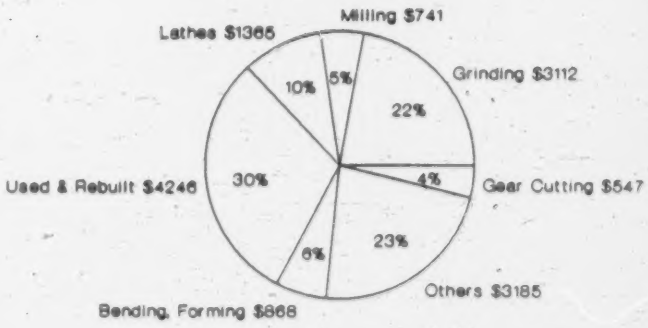
MONTHLY FOCUS

Year-to-date U.S. machine tool exports are up 21% in 1990 over 1989. Part of the credit for the higher exports goes to West Germany and India. U.S. exports to West Germany reached $30.5 million in 1990 through May, up 65% over last year, while U.S. exports to India were up 64% to $14.1 million. The charts below detail U.S. machine tool exports to West Germany and India in 1990 through May.

U.S. Exports to West Germany
January - May 1990
($ Thousands)



U.S. Exports to India
January - May 1990
($ Thousands)



1990 EXPORTS

METAL CUTTING

COUNTRY	MAY	APRIL	%CHANGE	MAY YTD'90	MAY YTD'89	%CHANGE
Canada	$ 6,693,716	$11,788,934	-43.22%	$60,691,325	$24,292,788	149.83%
U.K.	4,900,020	4,068,271	20.44	26,864,613	14,133,108	90.08
Mexico	4,429,836	3,201,636	38.36	23,850,673	23,334,410	2.21
Korea	4,533,605	1,701,195	166.50	21,724,961	18,384,374	18.17
West Germany	5,195,633	3,168,393	63.98	19,036,473	8,169,376	133.02
Japan	2,613,638	1,922,553	35.95	12,633,133	11,818,856	6.89
Belgium	1,417,268	2,657,856	-46.68	11,026,441	3,165,050	248.38
China	1,595,456	2,448,305	-34.83	10,198,765	12,857,044	-20.68
Australia	1,962,761	3,125,583	-37.20	9,706,833	3,655,695	165.53
India	624,527	1,061,879	-41.19	8,964,724	3,824,719	134.39
Brazil	861,918	480,843	79.25	7,442,155	3,414,110	117.98
Italy	746,666	636,420	17.32	6,556,459	6,717,633	-2.40
France	668,436	592,332	12.85	4,674,558	6,955,208	-32.79
Taiwan	284,581	405,986	-29.90	3,252,423	3,861,621	-15.78
USSR	33,812	0	NA	3,241,319	690,600	369.35
Venezuela	897,071	943,187	-4.89	3,213,626	4,394,232	-26.87
Singapore	1,246,622	104,824	1,089.25	3,179,975	3,211,116	-0.97
Switzerland	317,301	97,492	225.46	2,374,551	1,955,744	21.41
Netherlands	994,204	283,325	250.91	2,277,196	2,987,889	-23.79
Spain	575,869	248,188	132.03	2,161,696	1,305,898	65.53
Thailand	19,287	67,338	-71.36	1,052,922	688,917	52.84
Malaysia	26,061	63,765	-59.13	462,855	399,051	15.99
Austria	56,165	25,315	121.86	181,199	455,229	-60.20
Indonesia	0	25,000	-100.00	115,636	2,005,738	-94.23

METAL FORMING

COUNTRY	MAY	APRIL	%CHANGE	MAY YTD'90	MAY YTD'89	%CHANGE
Canada	$ 4,543,183	$ 6,455,241	-29.62%	$29,430,889	$18,631,631	57.96%
Mexico	6,198,769	5,459,065	13.55	24,343,364	17,972,397	35.45
Japan	3,470,971	2,804,116	23.78	17,155,133	29,474,594	-41.80
Korea	1,971,841	3,087,797	-36.14	16,872,027	27,305,609	-38.21
U.K.	6,078,649	3,510,840	73.14	16,383,296	23,138,847	-29.20
West Germany	2,658,596	1,510,578	76.00	11,432,079	10,279,745	11.21
France	2,639,124	1,151,399	129.21	8,742,634	3,558,708	145.67
China	1,290,309	1,475,715	-12.56	8,183,427	6,730,230	21.59
Taiwan	228,704	1,950,979	-88.28	7,701,095	5,565,309	38.38
Italy	1,838,777	1,015,223	81.12	5,231,564	4,816,631	8.61
India	145,740	278,778	-47.72	5,098,996	4,737,260	7.64
Netherlands	497,594	804,647	-38.16	3,267,069	1,408,358	131.98
Australia	183,371	1,648,949	-88.88	2,833,803	4,021,859	-29.54
Singapore	549,143	1,167,078	-52.95	2,787,099	6,086,570	-54.21
Brazil	635,010	595,200	6.69	2,293,445	1,836,570	24.88
Malaysia	102,871	1,327,715	-92.25	1,710,512	422,176	305.17
Belgium	217,234	182,619	18.95	1,673,495	888,397	88.37
Spain	351,890	481,663	-26.94	1,641,701	2,428,403	-32.40
Austria	823,996	8,643	9,433.68	1,603,022	616,150	160.17
Switzerland	37,346	25,356	47.29	1,010,039	917,643	10.07
Thailand	270,383	106,510	153.86	746,890	1,280,663	-41.68
USSR	611,615	0	NA	611,615	107,711	467.83
Venezuela	197,932	51,650	283.22	525,886	4,499,447	-88.31
Indonesia	0	6,969	-100.00	31,164	106,813	-70.82

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	MAY	APRIL	%CHANGE	MAY YTD'90	MAY YTD'89	%CHANGE
Canada	$11,236,899	$18,244,175	-38.41%	$90,122,214	$42,924,419	109.96%
Mexico	10,628,605	8,660,701	22.72	48,194,037	41,306,807	16.67
U.K.	10,978,669	7,579,111	44.85	43,247,909	37,271,955	16.03
Korea	6,505,446	4,788,992	35.84	38,596,988	45,689,983	-15.52
West Germany	7,854,229	4,678,971	67.86	30,468,552	18,449,121	65.15
Japan	6,084,609	4,726,669	28.73	29,788,266	41,293,450	-27.86
China	2,885,765	3,924,020	-26.46	18,382,192	19,587,274	-6.15
India	770,267	1,340,657	-42.55	14,063,720	8,561,979	64.26
France	3,307,560	1,743,731	89.68	13,417,192	10,513,916	27.61
Belgium	1,634,502	2,840,475	-42.46	12,699,936	4,053,447	213.31
Australia	2,146,132	4,774,532	-55.05	12,540,636	7,677,554	63.34
Italy	2,585,443	1,651,643	56.54	11,788,023	11,534,264	2.20
Taiwan	513,285	2,356,965	-78.22	10,953,518	9,426,930	16.19
Brazil	1,496,928	1,076,043	39.11	9,735,600	5,250,680	85.42
Singapore	1,795,765	1,271,902	41.19	5,967,074	9,297,686	-35.82
Netherlands	1,491,798	1,087,972	37.12	5,544,265	4,396,247	26.11
USSR	645,427	0	NA	3,852,934	798,311	382.64
Spain	927,759	729,851	27.12	3,803,397	3,734,301	1.85
Venezuela	1,095,003	994,837	10.07	3,739,512	8,893,679	-57.95
Switzerland	354,647	122,848	188.69	3,384,590	2,873,387	17.79
Malaysia	128,932	1,391,480	-90.73	2,173,367	821,227	164.65
Thailand	289,670	173,848	66.62	1,799,812	1,969,580	-8.62
Austria	880,161	33,958	2,491.91	1,784,221	1,071,379	66.53
Indonesia	0	31,969	-100.00	146,800	2,112,551	-93.05

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	$ 12,224,015	4,543	$ 10,935,156	5,847	$ 11,979,000	4,803	$ 14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	$103,070,069	5,993	$ 85,972,344	7,953	$100,460,308	6,329	$ 85,468,146

PRODUCT TYPES	MAY 1990		MAY 90' Y-T-D TOTALS		MAY 1989		MAY 89' Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	$ 13,323,757	23,606	$ 63,391,126	4,512	$ 10,318,184	24,023	$ 58,077,776
Boring Machines	23	2,694,052	65	8,532,901	10	1,811,008	145	9,167,582
Drilling Machines	141	1,391,074	460	8,132,045	39	2,487,530	116	6,702,787
Gear Cutting Machines	16	3,920,375	97	17,026,456	17	1,579,602	89	12,123,503
Grinding Machines	234	9,407,118	1,498	58,367,909	227	5,612,584	1,572	43,187,269
Horizontal Lathes NC	43	4,213,770	195	22,025,858	13	1,205,227	100	9,436,059
Vertical Lathes NC	4	245,844	30	2,623,358	1	80,170	5	558,739
Lathes Non-NC	60	1,105,382	307	7,911,217	37	1,373,016	211	6,220,542
Milling Machines	38	1,738,745	222	16,855,360	35	2,375,933	266	14,378,462
Machining Centers	23	4,666,577	198	31,275,949	28	3,340,264	113	17,283,991
Station Type Machines	2	2,487,300	50	20,821,899	7	1,176,710	30	9,246,286
Other Metal Cutting	484	5,316,601	1,743	35,447,448	167	3,352,346	1,060	20,052,763
Punching & Shearing Machines	162	6,578,641	656	30,138,576	74	5,837,129	479	25,373,579
Bending & Forming Machines	142	4,048,283	709	25,189,144	91	7,421,103	480	22,779,356
Presses	287	8,435,990	1,140	48,321,239	172	5,741,420	655	29,226,042
Forging Machines	67	6,501,594	166	20,371,676	63	3,165,982	294	16,326,539
Other Metal Forming	324	9,293,053	1,368	43,906,862	568	12,219,709	2,150	79,240,688
TOTAL	7,564	$ 85,368,156	32,510	$460,339,023	6,061	$ 69,097,917	31,788	$379,381,963

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE APR 90' - MAY 90' Units	% CHANGE APR 90' - MAY 90' Value	% CHANGE MAY 89' - MAY 90' Units	% CHANGE MAY 89' - MAY 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	14.80%	-10.75%	22.21%	29.13%	-1.74%	9.15%
Boring Machines	187.50	37.87	130.00	48.76	-55.17	-6.92
Drilling Machines	127.42	34.86	261.54	-44.08	296.55	21.32
Gear Cutting Machines	300.00	1,043.11	-5.88	148.19	8.99	40.44
Grinding Machiens	-23.53	-11.97	3.08	67.61	-4.71	35.15
Horizontal Lathes NC	10.26	-19.55	230.77	249.62	95.00	133.42
Vertical Lathes NC	-20.00	-6.17	300.00	206.65	500.00	369.51
Lathes Non-NC	-7.69	-53.25	62.16	-19.49	45.50	27.18
Milling Machines	18.75	-42.40	8.57	-26.82	-16.54	17.23
Machining Centers	-11.54	4.23	-17.86	39.71	75.22	80.95
Station Type Machines	0.00	317.31	-71.43	111.38	66.67	125.19
Other Metal Cutting	79.93	-14.57	189.82	58.59	64.43	76.77
Punching & Shearing Machines	45.95	74.98	118.92	12.70	36.95	18.78
Bending & Forming Machines	-19.77	-36.75	56.04	-45.45	47.71	10.58
Presses	50.26	-23.43	66.86	46.93	74.05	65.34
Forging Machines	157.69	103.29	6.35	105.36	-43.54	24.78
Other Metal Forming	59.61	-6.78	-42.96	-23.95	-36.37	-44.59
TOTAL	19.51	-0.12	24.80	23.55	2.27	21.34

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	$ 15,101,348	66,011	$ 10,754,274	64,814	$ 11,170,439	83,714	$ 12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	$216,118,098	69,614	$154,026,349	68,854	$168,324,455	88,078	$194,391,971

PRODUCT TYPES	MAY 1990		MAY 90* Y-T-D TOTALS		MAY 1990		MAY 89* Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	$ 13,702,955	376,171	$ 63,025,771	55,283	$ 15,897,111	229,141	$ 62,947,714
Boring Machines	63	2,378,706	248	11,517,651	56	2,914,892	370	28,019,463
Drilling Machines	105	1,412,575	602	17,084,288	198	8,206,249	814	41,285,212
Gear Cutting Machines	60	1,682,253	244	18,413,118	92	5,184,412	252	15,074,821
Grinding Machines	761	22,855,644	3,574	109,890,909	703	28,618,882	3,207	112,830,993
Horizontal Lathes NC	246	26,717,053	1,434	135,493,689	370	37,390,197	1,717	161,184,356
Vertical Lathes NC	12	2,697,583	60	10,572,341	21	3,192,456	68	8,363,554
Lathes Non-NC	684	8,838,746	3,555	46,797,099	406	7,181,037	2,201	34,603,860
Milling Machines	498	6,400,652	2,405	33,351,215	533	6,525,800	2,298	51,542,518
Machining Centers	212	21,375,164	1,456	174,723,155	293	31,263,982	1,394	150,297,223
Station Type Machines	9	5,207,130	90	23,926,275	19	4,417,149	83	22,737,593
Other Metal Cutting	477	14,389,120	2,216	72,282,490	450	16,125,897	2,108	82,329,631
Punching & Shearing Machines	168	5,567,876	749	29,120,417	103	4,809,616	658	28,756,978
Bending & Forming Machines	245	7,810,331	1,007	33,865,649	535	9,628,758	1,292	40,770,124
Presses	410	4,231,697	1,355	28,597,728	161	12,083,555	854	75,851,907
Forging Machines	46	3,389,713	422	27,216,350	155	9,299,745	750	44,364,964
Other Metal Forming	198	11,187,287	1,147	56,827,213	545	13,071,111	3,173	44,971,266
TOTAL	85,661	$159,844,485	396,735	$892,705,358	59,923	$215,810,849	250,380	$1,005,932,177

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE APR 90' - MAY 90' Units	% CHANGE APR 90' - MAY 90' Value	% CHANGE MAY 89' - MAY 90' Units	% CHANGE MAY 89' - MAY 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	-2.68%	11.44%	47.36%	-13.80%	64.17%	0.12%
Boring Machines	34.04	30.61	12.50	-18.39	-32.97	-58.89
Drilling Machines	-7.08	-60.72	-46.97	-82.79	-26.04	-58.62
Gear Cutting Machines	76.47	-59.84	-34.78	-67.55	-3.17	22.14
Grinding Machines	3.26	8.57	8.25	-20.14	11.44	-2.61
Horizontal Lathes NC	-12.46	3.89	-33.51	-28.55	-16.48	-15.94
Vertical Lathes NC	100.00	85.40	-42.86	-15.50	-11.76	26.41
Lathes Non-NC	-29.92	-12.57	68.47	23.08	61.52	35.24
Milling Machines	-16.72	-16.80	-6.57	-1.92	4.66	-35.29
Machining Centers	-38.37	-56.36	-27.65	-31.63	4.45	16.25
Station Type Machines	-78.05	-36.44	-52.63	17.88	8.43	5.23
Other Metal Cutting	12.24	14.59	6.00	-10.77	5.12	-12.20
Punching & Shearing Machines	15.07	41.27	63.11	15.77	13.83	1.26
Bending & Forming Machines	15.02	23.53	-54.21	-18.89	-22.06	-16.94
Presses	197.10	-55.57	154.66	-64.98	58.67	-62.30
Forging Machines	-33.33	-13.21	-70.32	-63.55	-43.73	-38.65
Other Metal Forming	1.02	-14.21	-63.67	-14.41	-63.85	26.36
TOTAL	-2.74	-17.77	42.95	-25.93	58.45	-11.26

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

RELEASED: August 1, 1990

		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8456300000	Electro-discharge machines	35	2496	2	73
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	38	6946	7	1178
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	10	2043	2	257
100035	Horiz. mach. ctrs., ATC	26	7636	8	2217
100045	Mach. ctrs., n.e.c.	124	14650	6	1016
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	1	1100
300010	Multi-station transfer machines, NC	7	11259	1	1387
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	14	3447	1	69
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	148	11288	34	2801
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3002	5	495
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	13	4289	3	849
190030	Horiz. engine or toolroom lathes, non-NC	60	1149	11	258
190050	Automatic bar and/or chucking mach., single spindle, non-NC	3	131	1	4
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233	0	0
190090	Horiz. lathes, n.e.c., non-NC	155	2019	30	340
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	2	46
915070	Vertical lathes, excl. VTL's, n.e.c., NC	14	1650	2	200
991050	Vertical turret lathes, non-NC	23	572	16	435
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	39	2808	2	69
8459100000	Way-type unit head machines	14	1957	0	0
210080	Other drilling machines, NC	49	4372	5	352
290040	Drilling machines, multiple spindle, non-NC	12	527	2	97
290050	Drilling machines, radial, non-NC	16	140	1	27
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	49	979	16	231
290090	Drilling machines, n.e.c., non-NC	334	2115	117	684
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	1481	2	1398
310070	Boring-milling mach., n.e.c., NC	5	213	1	27
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	9	629	8	582
400040	Boring machines, vertical, NC	2	899	1	210
400050	Boring machines, vertical, non-NC	25	415	7	160
400070	Boring machines, n.e.c., NC	7	2536	0	0
400080	Boring machines, n.e.c., non-NC	9	542	2	66
510080	Milling machines, knee type, NC	9	622	2	183
590030	Milling machines, knee type, non-NC	46	1450	9	361
610080	Milling machines, excl. knee type, n.e.c., NC	32	9563	4	769
690050	Milling machines, profile, dup., or die sinking, non-NC	21	496	0	0
690070	Milling machines, bed type, non-NC	1	50	1	50
690090	Milling machines, n.e.c., non-NC	113	4674	22	375
700020	Threading or tapping machines, n.e.c., NC	12	649	1	14
700080	Threading or tapping machines, n.e.c., non-NC	191	2000	68	549
8460110080	Flat surface grinding mach., NC	29	2343	10	400
190010	Flat surface grinding mach., recip.-table type, non-NC	28	553	2	62
190050	Flat surface grinding mach., n.e.c., non-NC	20	3318	4	861
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	45	14006	6	1306
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	15	2153	3	220
290030	Grinding mach., internal cylindrical, non-NC	20	2312	3	317
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	169	7135	21	940
310080	Sharpening machines (tool & cutter grinding), NC	11	1168	0	0
390050	Sharpening machines (tool & cutter grinding), non-NC	384	8811	41	1178
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	302	7570	39	1140
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	1	24
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	469	8234	104	2960
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	151	4982	26	507
200010	Shaping or slotting machines, NC	3	87	0	0
200090	Shaping or slotting machines, non-NC	20	536	1	3
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	14	1158	3	117
401050	Gear hobbers	9	1140	1	301
401070	Gear shapers	16	2944	0	0
401090	Gear cutting machines, n.e.c.	34	10417	10	3423
405060	Gear grinding or finishing machines	38	2525	5	196
500050	Sawing or cutting-off machines, NC	72	1957	4	112
500090	Sawing or cutting-off machines, non-NC	636	8444	108	1020
9000000001	Metal cutting machine tools, n.e.c.	598	11888	271	2924
9800000001	Used or rebuilt machine tools	2042	25558	522	7276
9900000001	Machine tools valued at less than $2,500	14760	8730	3397	2028
	Cutting Total			4987	46491
	Y-T-D Cutting Total	21667	263308		
	NC Y-T-D Cutting Total*	820	115632		

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - May 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	36
8457100015	0	0	0	0	1	132	0	0	4	790
100025	0	0	0	0	0	0	0	0	1	132
100035	0	0	0	0	2	388	0	0	4	841
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	69
110030	4	489	0	0	4	325	0	0	0	0
110050	0	0	0	0	4	414	0	0	1	81
110090	0	0	0	0	0	0	1	230	2	619
190030	1	29	0	0	0	0	0	0	1	84
190050	0	0	0	0	0	0	0	0	1	4
190070	0	0	0	0	0	0	0	0	0	0
190090	1	7	0	0	0	0	0	0	2	33
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	1	23
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	8	161
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	198
290040	0	0	0	0	0	0	0	0	2	97
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	2	11
290090	10	48	0	0	0	0	0	0	16	70
.0010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	183
400040	0	0	0	0	0	0	0	0	1	210
400050	0	0	0	0	0	0	0	0	2	63
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	16
510080	0	0	0	0	0	0	0	0	1	47
590030	4	144	0	0	0	0	0	0	1	19
610080	0	0	0	0	0	0	0	0	2	201
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	0	0	0	0	0	0	0	0	4	56
700020	0	0	0	0	0	0	0	0	1	14
700080	0	0	0	0	1	109	0	0	18	147
8460110080	0	0	0	0	0	0	1	26	1	22
190010	0	0	0	0	0	0	0	0	2	62
190050	4	861	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	196	1	157
290010	0	0	0	0	0	0	0	0	1	112
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	8	255
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	16	215
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	47	0	0	0	0	6	73
900060	0	0	0	0	0	0	0	0	1	24
900080	2	25	0	0	0	0	0	0	31	271
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	99
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	381	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	83
500090	2	16	0	0	0	0	0	0	34	246
9000000001	0	0	0	0	0	0	0	0	34	231
9800000001	20	17	0	0	0	0	0	0	77	229
9900000001	60	78	15	10	56	49	231	7	353	363
Month Tot	110	1963	18	56	68	1417	236	862	652	6694
Y-T-D Tot	1017	9707	84	181	289	11026	462	7442	2645	60691
NC YTD Tot*	13	4758	1	23	82	9783	10	1620	208	36105

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	1	140
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	655	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	7	0	0	1	67
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	260	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	25
310080	0	0	0	0	0	0	0	0	0	0
390050	1	753	0	0	1	3	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	8	161	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	4	0	0	0	0	7	45
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	22
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	600	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	10	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	7	421
9800000001	1	22	1	9	41	355	0	0	0	0
9900000001	0	0	77	46	0	0	0	0	36	28
Month Tot	12	1595	81	668	45	625	0	0	55	747
Y-T-D Tot	144	10199	620	4675	213	8965	52	116	830	6556
NC YTD Tot*	23	6145	43	2900	10	3031	0	0	9	599

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	37	0	0
8457100015	0	0	1	115	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	712	0	0	0	0	0	0
100045	1	36	0	0	0	0	2	191	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	25	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	24	273	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	2	200	0	0
991050	0	0	0	0	0	0	2	43	0	0
995090	0	0	0	0	0	0	2	69	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	38	0	0	3	117	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	27	0	0
290070	0	0	0	0	0	0	13	84	0	0
290090	3	13	4	78	0	0	4	47	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	124	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	2	42	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	50	0	0
510080	0	0	0	0	0	0	1	136	0	0
590030	1	126	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	27	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	189	0	0	16	131	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	3	8	3	80
8460110080	0	0	0	0	0	0	8	352	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	342	0	0	0	0	1	90	0	0
290010	1	53	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	182	0	0	0	0	4	25	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	9	58	4	28	1	9	2	14	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	6	671	0	0	4	84	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	7	1271	2	21	0	0	17	999	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	3	46	2	284	0	0	19	141	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	3	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	18	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	3	2026	0	0	0	0	0	0
405060	0	0	2	163	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	28
500090	18	228	6	40	0	0	10	37	10	63
9000000001	0	0	1	9	0	0	7	54	0	0
9800000001	5	94	8	99	1	4	112	719	5	274
9900000001	199	140	163	61	9	13	735	280	12	8
Month Tot	251	2614	206	4534	11	26	1001	4430	32	994
Y-T-D Tot	1498	12633	795	21725	78	463	4088	23851	235	2277
NC YTD Tot*	40	4637	46	7748	0	0	88	5341	7	795

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	2	134	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	13	0	0	0	0	1	10	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	7	32	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	28	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	172	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	59	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	5	2	30	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	27	0	0	2	17	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	2	24	1	10	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	1	18	3	50	0	0
9000000001	6	470	7	547	18	116	0	0	0	0
9800000001	11	448	7	29	33	79	0	0	3	11
9900000001	35	30	0	0	33	26	58	52	9	8
Month Tot	58	1247	14	576	98	317	67	285	12	19
Y-T-D Tot	694	3180	140	2162	294	2375	391	3252	62	1053
NC YTD Tot*	10	520	24	998	2	419	14	944	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - - May 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	125
100035	1	275	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	1100	0	0
300010	1	1387	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	22	1583	0	0	0	0	1	124	3	280
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	6	98	0	0	1	17	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	4	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	3	136	0	0	0	0	0	0	3	94
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	136
290090	0	0	0	0	0	0	0	0	70	323
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	0	0	0	0	0	0	0	0	1	27
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	55
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	18	0	0	0	0	0	0	1	27
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	14	38	3	9	26	158
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	374	0	0	0	0	0	0	1	147
290010	0	0	0	0	0	0	0	0	1	55
290030	0	0	0	0	0	0	2	57	0	0
290050	1	17	0	0	0	0	2	60	1	205
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	6	40	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	56	0	0	1	5	0	0	2	8
900060	0	0	0	0	0	0	0	0	0	0
900080	4	36	0	0	7	48	6	90	16	107
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	14
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	301	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	4	337	1	80	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	9	57	1	34	0	0	5	100	8	121
9000000001	3	12	0	0	1	14	1	9	186	1042
9800000001	12	465	0	0	3	26	13	3404	169	993
9900000001	136	81	0	0	49	21	299	123	832	605
Month Tot	207	4900	1	34	85	897	340	5196	1327	5796
Y-T-D Tot	2082	26865	15	3241	401	3214	1247	19036	3291	18424
NC YTD Tot*	95	17828	0	0	1	110	26	4029	66	7176

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

RELEASED: August 1, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	167	5365	51	1035
8462100030	Headers and upsetters, including cold headers	25	8549	8	1853
100050	Forging or die stamping machines, and hammers, n.e.c.	141	11823	59	4649
210080	Bending, folding, straight. or flat. mach., incl presses, NC	120	10183	15	1099
290030	Press brakes, non-NC	97	2200	18	159
290040	Bending rolls, non-NC	41	902	16	188
290050	Bending, folding, straight., or flat., n.e.c., non-NC	451	11904	93	2603
310080	Shearing machines, NC	38	3187	12	874
390050	Shearing machines, non-NC	160	3240	27	312
410080	Punching or notching mach., incl. comb. punch & shear, NC	87	14412	23	2682
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	371	9299	100	2711
910060	Hydraulic presses, NC	34	2452	8	420
910090	Hydraulic presses, non-NC	322	14523	73	1730
990030	Presses, n.e.c., NC	68	6834	27	2418
990040	Presses, mechanical, non-NC	43	4494	2	69
990060	Presses, n.e.c., non-NC	673	20018	177	3799
8463100080	Draw benches for bars, tubes, profiles, wire or the like	76	1594	16	204
200080	Thread rolling machines	26	1371	2	397
300080	Machines for working wire	284	9933	86	1777
900080	Metal forming machine tools, n.e.c.	815	25643	169	5880
9800000002	Used or rebuilt machine tools	1366	24959	255	3109
9900000002	Machine tools valued at less than $2,500	5438	4144	1340	910
	Forming Total			2577	38877
	Y-T-D Forming Total	10843	197031		
	NC Y-T-D Forming Total	347	37068		
	Cutting and Forming Totals:				
	Monthly Total			7564	85368
	Y-T-D Total	32510	460339		
	NC Y-T-D Total*	1167	152701		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	306063	0	61844
2000000000	Parts for working rubber or plastics - heading 8477	0	122658	0	27072
2710003070	Quenching or cutting oils	0	8452	0	958
8428900010	Industrial robots for lifting, handling, loading or unload	151	2455	63	863
8431390090	Parts industrial robots, handling and loading - heading 8428	0	31930	0	6346
8456100000	Laser, light or photon beam for working any material	342	17167	114	4186
200000	Ultrasonic process for working any material	47	1140	16	367
8477106010	Injection molding mach., for rubber or oth. thermosetting	79	6138	16	1125
106070	Injection molding mach., for thermoplastics	149	18191	30	3493
200010	Extruders for rubber or other thermosetting materials	186	7387	53	2146
200050	Extruders for processing thermoplastics	364	16647	58	2485
300000	Blow molding machines	211	16824	76	5223
400000	Vacuum-molding and other thermoforming machines	4178	7093	40	1172
510010	Machines for molding or retreading pneumatic tires	445	8831	181	2038
510090	Machines for molding or otherwise forming inner tubes	173	22794	48	14662
590000	Machines for molding or otherwise forming n.e.c.	602	10596	153	3728
800000	Machines for working rubber or plastics n.e.c.	1674	44948	360	10609
8479899040	Industrial robots, n.e.c.	2584	24635	315	2297
908040	Industrial robot parts	0	14910	0	1707
8537100030	Numerical controls for controlling machine tools	952	13307	206	2787
9024100000	Machines and appliances for testing metals	0	29388	0	5051
9031100000	Machines for balancing mechanical parts	0	13954	0	2751
300000	Profile projectors	0	3039	0	654
9032810040	Industrial process control instr., hydraulic or pneumatic	262571	16338	49593	3338

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

May 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	16	0	0	2	459
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	2	69
210080	1	24	0	0	0	0	0	0	3	654
290030	0	0	0	0	0	0	0	0	15	109
290040	0	0	0	0	0	0	0	0	4	58
290050	2	29	0	0	0	0	0	0	26	214
310080	0	0	0	0	0	0	0	0	4	477
390050	6	95	0	0	0	0	0	0	2	13
410080	0	0	0	0	0	0	0	0	6	363
490050	0	0	1	811	3	33	0	0	17	280
910060	1	10	0	0	0	0	0	0	1	182
910090	0	0	0	0	3	132	0	0	1	106
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	4	112	7	106
8463100080	0	0	0	0	2	30	0	0	1	6
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	13	0	0	21	509	5	207
900080	0	0	0	0	0	0	0	0	13	326
9800000002	2	15	0	0	0	0	0	0	40	711
9900000002	11	9	0	0	9	7	18	15	225	202
Month Tot	23	183	2	824	18	217	43	635	374	4543
Y-T-D Tot	192	2834	36	1603	106	1673	281	2293	1801	29431
NC YTD Tot	17	1416	0	0	0	0	6	438	76	9607
C&F Month	133	2146	20	880	86	1635	279	1497	1026	11237
C&F Y-T-D	1209	12541	120	1784	395	12700	743	9736	4446	90122
C&F NC YTD*	30	6173	1	23	82	9783	16	2058	284	45712

Other Manufacturing Technology

1000000000	0	2026	0	173	0	1230	0	304	0	13435
2000000000	0	228	0	90	0	459	0	265	0	6512
2710003070	0	3	0	0	0	0	0	15	0	100
8428900010	0	0	0	0	0	0	0	0	15	359
8431390090	0	502	0	0	0	33	0	5	0	1057
8456100000	0	0	0	0	2	164	0	0	0	0
200000	0	0	0	0	0	0	0	0	3	57
8477106010	1	38	0	0	0	0	0	0	1	37
106070	1	40	0	0	0	0	2	167	14	2210
200010	0	0	0	0	0	0	0	0	48	1505
200050	0	0	0	0	0	0	0	0	9	214
300000	0	0	0	0	0	0	0	0	1	207
400000	0	0	0	0	4	35	0	0	4	332
510010	3	934	0	0	0	0	1	108	1	17
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	31	479	0	0	3	64
800000	2	26	2	35	1	20	0	0	75	2250
8479899040	0	0	0	0	0	0	0	0	186	1110
908040	0	25	0	0	0	9	0	0	0	1065
8537100030	2	17	0	0	1	31	0	0	5	55
9024100000	0	41	0	0	0	27	0	13	0	990
9031100000	0	67	0	0	0	33	0	0	0	1019
300000	0	0	0	0	0	0	0	143	0	3
9032810040	1412	155	812	41	1205	60	0	0	2119	102

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	30	325	0	0	4	44	0	0	0	0
8462100030	0	0	1	990	0	0	0	0	1	401
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	8	78
290050	0	0	2	76	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	103	0	0	0	0	0	0
490050	2	22	0	0	0	0	0	0	1	76
910060	0	0	0	0	0	0	0	0	0	0
910090	5	177	0	0	0	0	0	0	2	83
990030	0	0	13	1294	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	2	13	1	39	0	0	5	133
8463100080	0	0	1	37	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	15	4	57	0	0	0	0	1	45
900080	6	742	0	0	10	60	0	0	5	1015
9800000002	0	0	2	40	0	0	0	0	0	0
9900000002	35	9	37	28	5	3	0	0	11	9
Month Tot	79	1290	63	2639	20	146	0	0	34	1839
Y-T-D Tot	154	8183	255	8743	253	5099	6	31	130	5232
NC YTD Tot	3	2629	32	3862	0	0	0	0	3	589
C&F Month	91	2886	144	3308	65	770	0	0	89	2585
C&F Y-T-D	298	18382	875	13417	466	14064	58	147	960	11788
C&F NC YTD*	26	8773	75	6763	10	3031	0	0	12	1188

Other Manufacturing Technology

1000000000	0	286	0	2041	0	159	0	782	0	1166
2000000000	0	8	0	732	0	105	0	34	0	144
2710003070	0	0	0	0	0	0	0	0	0	4
8428900010	0	0	11	188	0	0	0	0	0	0
8431390090	0	56	0	169	0	39	0	4	0	210
8456100000	4	248	0	0	0	0	0	0	1	350
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	47
106070	0	0	1	83	0	0	0	0	1	104
200010	0	0	0	0	0	0	0	0	0	0
200050	8	202	0	0	1	257	1	72	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	9	135	25	398	0	0	0	0
800000	2	1784	0	0	14	150	0	0	0	0
8479899040	1	58	17	110	0	0	0	0	22	132
908040	0	43	0	166	0	5	0	0	0	17
8537100030	0	0	43	567	0	0	0	0	9	161
9024100000	0	29	0	163	0	54	0	0	0	259
9031100000	0	0	0	0	0	0	0	0	0	16
300000	0	0	0	0	0	0	0	0	0	32
9032810040	959	48	1993	100	110	8	0	0	3035	379

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	104	4	19	1	6	2	14
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	83	0	0	2	80	0	0
210080	0	0	3	113	0	0	1	47	0	0
290030	0	0	0	0	0	0	2	28	0	0
290040	0	0	0	0	0	0	3	44	0	0
290050	0	0	8	201	4	26	32	1430	0	0
310080	3	160	1	54	0	0	1	25	2	97
390050	0	0	0	0	0	0	19	203	0	0
410080	0	0	0	0	0	0	0	0	1	239
490050	30	584	0	0	0	0	8	156	0	0
910060	0	0	1	51	0	0	3	162	0	0
910090	1	6	7	249	0	0	31	336	0	0
990030	0	0	12	760	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	32	1387	7	51	0	0	83	714	22	130
8463100080	0	0	0	0	0	0	7	41	0	0
200080	0	0	0	0	0	0	1	292	0	0
300080	2	76	0	0	0	0	24	349	0	0
900080	6	1182	3	70	1	58	32	1073	1	14
9800000002	1	12	3	224	0	0	84	930	0	0
9900000002	248	64	64	12	0	0	282	282	10	4
Month Tot	323	3471	112	1972	9	103	616	6199	38	498
Y-T-D Tot	922	17155	346	16872	35	1711	2658	24343	138	3267
NC YTD Tot	16	2740	28	2061	2	65	43	2930	19	1822
C&F Month	574	6085	318	6505	20	129	1617	10629	70	1492
C&F Y-T-D	2420	29788	1141	38597	113	2173	6746	48194	373	5544
C&F NC YTD*	56	7377	74	9810	2	65	131	8271	26	2617

Other Manufacturing Technology

1000000000	0	6900	0	2030	0	327	0	3253	0	925
2000000000	0	605	0	1539	0	174		2938	0	458
2710003070	0	33	0	0	0	0	0	32	0	0
8428900010	0	0	2	36	0	0	7	43	0	0
8431390090	0	172	0	163	0	33	0	985	0	136
8456100000	75	2172	2	138	0	0	0	0	6	150
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	11	883	0	0
106070	1	31	3	224	0	0	0	0	0	0
200010	0	0	0	0	0	0	4	609	0	0
200050	2	16	1	16	0	0	12	433	0	0
300000	1	1394	2	172	0	0	51	1667	0	0
400000	19	23	3	679	1	12	2	40	0	0
510010	1	6	0	0	0	0	8	38	0	0
510090	2	135	0	0	0	0	4	116	2	11
590000	12	198	1	3	0	0	16	188	0	0
800000	60	219	9	1293	1	8	47	825	99	452
8479899040	11	51	1	5	0	0	5	141	1	48
908040	0	82	0	36	0	0	0	0	0	4
8537100030	1	17	9	125	1	9	0	0	0	0
9024100000	0	513	0	381	0	26	0	128	0	5
9031100000	0	16	0	1248	0	0	0	110	0	0
300000	0	238	0	174	0	0	0	0	0	0
9032810040	3931	230	1256	108	0	0	266	49	9248	474

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	113	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	3	247	0	0	1	20	0	0	3	152
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	8	128	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	6	0	0	0	0	1	17	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	7	4	192	0	0	0	0	4	119
900080	0	0	0	0	0	0	4	100	0	0
9800000002	8	241	1	25	0	0	0	0	0	0
9900000002	44	49	8	7	21	18	0	0	0	0
Month Tot	58	549	21	352	22	37	8	229	7	270
Y-T-D Tot	223	2787	49	1642	127	1010	160	7701	41	747
NC YTD Tot	4	261	3	115	1	30	20	1475	1	68
C&F Month	116	1796	35	928	120	355	75	513	19	290
C&F Y-T-D	917	5967	189	3803	421	3385	551	10954	103	1800
C&F NC YTD*	14	781	27	1113	3	449	34	2419	3	190

Other Manufacturing Technology

1000000000	0	696	0	371	0	851	0	1156	0	78
2000000000	0	189	0	157	0	233	0	1139	0	308
2710003070	0	24	0	13	0	3	0	33	0	12
8428900010	17	62	0	0	0	0	0	0	0	0
8431390090	0	182	0	5	0	0	0	36	0	0
8456100000	0	0	2	48	0	0	0	0	0	0
200000	0	0	2	53	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	2	156	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	7	77
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	5	130	0	0	1	14	0	0
510090	0	0	0	0	0	0	12	230	0	0
590000	1	7	2	21	14	224	9	515	0	0
800000	1	10	0	0	7	307	0	0	0	0
8479899040	6	34	3	72	4	40	0	0	0	0
908040	0	0	0	6	0	12	0	11	0	0
8537100030	16	227	1	7	3	40	1	18	0	0
9024100000	0	134	0	452	0	171	0	178	0	0
9031100000	0	144	0	14	0	0	0	0	0	0
300000	0	14	0	21	0	0	0	26	0	0
9032810040	1394	136	1074	59	244	12	956	153	4710	14

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	6	48
8462100030	0	0	0	0	0	0	6	462	0	0
100050	47	3997	0	0	0	0	0	0	6	420
210080	3	102	0	0	0	0	0	0	1	45
290030	0	0	0	0	0	0	0	0	1	22
290040	0	0	0	0	0	0	0	0	1	9
290050	1	5	0	0	0	0	7	181	4	22
310080	1	62	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	1	235	0	0	0	0	6	544	8	1199
490050	26	308	2	132	0	0	0	0	10	309
910060	2	15	0	0	0	0	0	0	0	0
910090	0	0	9	343	1	7	0	0	5	163
990030	0	0	1	136	0	0	0	0	1	227
990040	1	21	0	0	0	0	0	0	1	48
990060	0	0	0	0	1	32	5	925	6	135
8463100080	5	90	0	0	0	0	0	0	0	0
200080	1	104	0	0	0	0	0	0	0	0
300080	9	102	0	0	2	41	1	18	5	27
900080	73	906	0	0	0	0	6	111	9	223
9800000002	18	87	0	0	3	105	17	338	76	383
9900000002	82	44	0	0	69	14	99	79	62	55
Month Tot	270	6079	12	612	76	198	147	2659	202	3334
Y-T-D Tot	813	16383	12	612	145	526	770	11432	1190	25720
NC YTD Tot	22	3036	1	136	1	28	9	926	40	2833
C&F Month	477	10979	13	645	161	1095	487	7854	1529	9131
C&F Y-T-D	2895	43248	27	3853	546	3740	2017	30469	4481	44144
C&F NC YTD*	117	20864	1	136	2	138	35	4955	106	10009

Other Manufacturing Technology

1000000000	0	5812	0	0	0	1609	0	6531	0	9701
2000000000	0	2042	0	0	0	298	0	3274	0	5141
2710003070	0	4	0	0	0	0	0	0	0	682
8428900010	0	0	0	0	0	0	10	163	1	13
8431390090	0	355	0	0	0	41	0	9	0	2154
8456100000	0	0	0	0	0	0	2	417	20	498
200000	10	244	0	0	0	0	0	0	1	14
8477106010	0	0	0	0	1	40	1	80	0	0
106070	3	321	0	0	0	0	0	0	2	158
200010	0	0	0	0	0	0	0	0	1	32
200050	17	308	0	0	0	0	0	0	7	967
300000	4	1521	0	0	1	24	8	147	1	15
400000	6	43	0	0	0	0	0	0	1	8
510010	1	79	0	0	9	164	0	0	151	549
510090	0	0	0	0	0	0	1	4	27	14168
590000	3	50	0	0	0	0	18	1004	9	441
800000	13	584	0	0	0	0	1	162	26	2483
8479899040	12	73	0	0	0	0	40	343	6	80
908040	0	101	0	0	0	0	0	50	0	73
8537100030	82	1092	0	0	0	0	22	285	10	137
9024100000	0	357	0	0	0	7	0	386	0	737
9031100000	0	0	0	0	0	0	0	28	0	56
300000	0	0	0	0	0	0	0	0	0	3
9032810040	4569	557	0	0	312	31	1949	125	8039	499

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	1	205	0	0	1	205
Czechoslovakia	0	0	0	0	0	0
Denmark	4	3	0	0	4	3
East Germany	0	0	0	0	0	0
Finland	124	22	4	25	128	47
Greece	222	722	19	204	241	926
Hungary	6	104	3	360	9	464
Iceland	0	0	0	0	0	0
Ireland	2	59	12	19	14	78
Luxembourg	0	0	0	0	0	0
Norway	2	13	1	5	3	17
Poland	0	0	2	3	2	3
Portugal	12	8	2	457	14	465
Romania	0	0	0	0	0	0
Sweden	63	566	3	72	66	639
Turkey	4	36	3	14	7	50
Yugoslavia	1	105	0	0	1	105
Oth Europe	0	0	0	0	0	0
TOTAL	1355	16747	676	16915	2031	33662
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	1	10	0	0	1	10
Belize	0	0	0	0	0	0
Bermuda	10	6	0	0	10	6
Costa Rica	147	257	1	17	148	275
Dominican Rep	8	11	6	22	14	33
El Salvador	0	0	4	55	4	55
Guatemala	0	0	3	34	3	34
Haiti	0	0	0	0	0	0
Honduras	1	3	2	41	3	44
Jamaica	0	0	1	22	1	22
Panama	5	3	0	0	5	3
Trinidad	0	0	0	0	0	0
Oth N & C Am.	1	30	0	0	1	30
TOTAL	1826	11444	1007	10932	2833	22376
SOUTH AMERICA						
Argentina	0	0	12	222	12	222
Bolivia	0	0	0	0	0	0
Chile	32	230	52	806	84	1035
Colombia	16	93	7	46	23	139
Ecuador	8	63	0	0	8	63
Paraguay	0	0	0	0	0	0
Peru	0	0	1	6	1	6
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	377	2145	191	1913	568	4058
OCEANIA						
New Zealand	4	17	0	0	4	17
Oth Oceania	0	0	1	45	1	45
TOTAL	114	1980	24	228	138	2208

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	316	587	9	67	325	655
Iran	0	0	21	18	21	18
Iraq	0	0	0	0	0	0
Israel	41	1815	2	168	43	1983
Jordan	0	0	0	0	0	0
Kuwait	0	0	5	5	5	5
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	150	392	1	38	151	430
Qatar	0	0	0	0	0	0
Saudi Arabia	89	43	7	448	96	491
Sri Lanka	0	0	0	0	0	0
Syria	0	0	1	6	1	6
United Arab Emr	7	18	0	0	7	18
Vietnam	0	0	0	0	0	0
Oth Asia	1	15	1	15	2	30
TOTAL	1266	13815	663	8795	1929	22609
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	13	19	12	10	25	29
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	1	4	1	4	2	8
South Africa	33	332	3	80	36	412
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	2	5	0	0	2	5
Oth Africa	0	0	0	0	0	0
TOTAL	49	361	16	94	65	455

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: August 1, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	439	27269	75	6291
301050	Electro-discharge machines, n.e.c., NC	89	5187	19	1318
301070	Electro-discharge machines, n.e.c., non-NC	174	3684	58	1083
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	979	78415	156	11427
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	62	11831	14	1603
100035	Horiz. mach. ctrs., ATC	311	70774	22	5426
100045	Mach. ctrs., n.e.c.	104	13703	20	2918
200010	Unit construction mach. (single station transfer), NC	13	1295	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	361	1	361
300010	Multi-station transfer machines, NC	28	7977	3	179
300090	Multi-station transfer machines, non-NC	48	14293	5	4667
8458110010	Horiz. lathes, multiple spindle, NC	120	20007	20	4578
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1034	73408	182	14114
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	252	35724	38	6734
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	28	6355	6	1291
190030	Horiz. engine or toolroom lathes, non-NC	1779	16953	358	3563
190050	Automatic bar and/or chucking mach., single spindle, non-NC	514	10016	49	1675
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	65	3944	3	100
190090	Horiz. lathes, n.e.c., non-NC	752	7037	230	1241
911060	Vertical turret lathes, multiple spindle, NC	18	3099	3	649
911080	Vertical turret lathes, n.e.c., NC	13	4153	4	1684
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	29	3320	5	364
991050	Vertical turret lathes, non-NC	61	1720	4	396
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	384	7128	40	1863
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	142	9383	12	659
290040	Drilling machines, multiple spindle, non-NC	54	1317	12	169
290050	Drilling machines, radial, non-NC	189	1443	24	242
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	42	420	17	99
290090	Drilling machines, n.e.c., non-NC	175	4522	40	243
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	439	1	142
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	29	3017	3	372
310070	Boring-milling mach., n.e.c., NC	18	767	1	110
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	16	1496	7	822
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	46	1208	15	188
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	34	1045	20	555
400070	Boring machines, n.e.c., NC	13	1339	4	43
400080	Boring machines, n.e.c., non-NC	89	2207	12	149
510080	Milling machines, knee type, NC	311	4450	81	683
590030	Milling machines, knee type, non-NC	1620	10959	313	1964
610080	Milling machines, excl. knee type, n.e.c., NC	133	7334	42	1302
690050	Milling machines, profile, dup., or die sinking, non-NC	32	320	1	7
690070	Milling machines, bed type, non-NC	34	1815	7	783
690090	Milling machines, n.e.c., non-NC	275	8473	54	1662
700020	Threading or tapping machines, n.e.c., NC	78	4089	16	865
700080	Threading or tapping machines, n.e.c., non-NC	84	2223	23	1014
8460110080	Flat surface grinding mach., NC	73	5846	6	1928
190010	Flat surface grinding mach., recip.-table type, non-NC	417	5612	85	1131
190050	Flat surface grinding mach., n.e.c., non-NC	932	9668	185	2922
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	190	34457	36	6104
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	215	6008	34	640
290030	Grinding mach., internal cylindrical, non-NC	37	3779	4	585
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	509	16712	176	4476
310080	Sharpening machines (tool & cutter grinding), NC	108	2095	17	452
390050	Sharpening machines (tool & cutter grinding), non-NC	395	4763	102	1207
400060	Honing or lapping machines, NC	18	1824	6	522
400080	Honing or lapping machines, non-NC	88	2967	17	978
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	24	1253	5	102
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	568	14907	88	1808
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	5	0	0
200010	Shaping or slotting machines, NC	68	2347	3	52
200090	Shaping or slotting machines, non-NC	116	1668	36	527
300060	Broaching machines, NC	2	5118	0	0
300080	Broaching machines, non-NC	55	1369	1	116
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	75	4985	48	697
401040	Gear shapers	11	3180	1	168
401060	Gear cutting machines, n.e.c.	64	420	0	0
405050	Gear grinding or finishing for bevel gears	55	626	0	0
405070	Gear grinding or finishing machines, n.e.c.	39	9203	11	817
500050	Sawing or cutting-off machines, NC	54	2975	6	89
500090	Sawing or cutting-off machines, non-NC	872	12182	190	2334
9000000001	Metal cutting machine tools, n.e.c.	184	4166	50	700
9800000001	Used or rebuilt machine tools	1416	12149	120	2542
9900000001	Machine tools valued at less than $2,500	367804	39529	79728	8513
	Cutting Total			82975	125010
	Y-T-D Cutting Total	385104	705730		
	NC Y-T-D Cutting Total	4789	449464		

Please see notes on last page of the metal forming section.

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	130	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	29	6	701	1	260	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	3	1651	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	189	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	46	394	5	57	1	47	0	0
190050	0	0	2	41	1	13	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	156	846	7	23	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	5	0	0
995090	0	0	5	19	6	18	3	11	1	9
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	11	101	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	22	0	0	0	0
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	2	777	0	0
390050	0	0	0	0	0	0	0	0	14	185
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	5	36
400070	0	0	0	0	0	0	0	0	4	43
400080	0	0	0	0	5	85	0	0	7	64
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	9	625	17	154
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	5	0	0	2	54
190010	0	0	0	0	0	0	0	0	3	92
190050	0	0	0	0	10	43	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	54
290010	0	0	0	0	12	107	0	0	1	33
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	0	0	4	72
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	26	0	0	0	0
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	44	13	51	14	252
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	27
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	36	115	24	252	1	4	27	137
9000000001	0	0	0	0	3	51	14	274	7	46
9800000001	2	346	0	0	16	169	0	0	3	12
9900000001	1	2	121	62	38	33	122	158	1714	421
Month Tot	3	348	378	1606	147	3305	172	2671	1826	1841
Y-T-D Tot	26	941	1218	7058	763	10741	778	10599	17217	24813
NC YTD Tot	2	110	2	464	24	2610	43	5008	56	6160

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	60	4737	0	0	0	0	0	0	0	0
301050	19	1318	0	0	0	0	0	0	0	0
301070	3	66	0	0	0	0	0	0	0	0
8457100015	81	7353	7	379	19	811	0	0	0	0
100025	5	837	0	0	0	0	0	0	0	0
100035	20	5198	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	83	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	361	0	0	0	0	0	0	0	0
300010	0	0	3	179	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	16	3326	0	0	0	0	0	0	0	0
110030	148	12303	12	730	0	0	0	0	0	0
110050	32	5678	0	0	0	0	0	0	0	0
110090	3	646	0	0	0	0	1	147	0	0
190030	2	7	0	0	34	437	1	48	0	0
190050	7	549	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	90	0	0	0	0	0	0	0	0
911060	1	379	0	0	0	0	0	0	0	0
911080	4	1684	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	2	187	0	0	0	0	0	0	0	0
991050	1	170	0	0	0	0	0	0	0	0
995090	0	0	5	383	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	11	644	0	0	0	0	0	0	0	0
290040	11	167	0	0	0	0	0	0	0	0
290050	2	54	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	13	55	0	0
290090	3	8	0	0	0	0	29	129	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	247	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	157	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	40	210	0	0
590030	0	0	0	0	0	0	111	972	0	0
610080	0	0	0	0	1	41	0	0	0	0
690050	1	7	0	0	0	0	0	0	0	0
690070	2	93	0	0	0	0	0	0	0	0
690090	5	17	0	0	0	0	0	0	0	0
700020	16	865	0	0	0	0	0	0	0	0
00080	14	762	0	0	0	0	0	0	0	0
8460110080	1	72	0	0	0	0	0	0	0	0
190010	3	117	0	0	36	597	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	18	3797	0	0	0	0	0	0	0	0
290010	1	76	0	0	0	0	0	0	0	0
290030	2	146	0	0	0	0	0	0	0	0
290050	15	1268	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	11	70	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	4	543
900060	2	41	0	0	0	0	0	0	0	0
900080	22	321	0	0	0	0	2	229	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	3	52	0	0	0	0	0	0	0	0
200090	4	52	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	116	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	4	374	0	0	0	0	0	0	0	0
401040	1	168	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	13	431	0	0	0	0	0	0	1	22
9000000001	3	29	2	21	0	0	1	7	0	0
9800000001	13	559	0	0	0	0	0	0	3	12
9900000001	4530	671	1443	132	31	5	21	9	243	190
Month Tot	5121	56024	1472	1824	122	1974	220	2052	252	775
Y-T-D Tot	26160	357873	2630	8627	497	9747	1032	10195	1071	4769
NC YTD Tot	2877	313415	69	4850	99	5127	76	1412	6	1445

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	15	1554	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	10	193	15	106	0	0	1	41	29	678
8457100015	0	0	11	749	35	1892	1	75	1	38
100025	0	0	9	767	0	0	0	0	0	0
100035	0	0	1	150	0	0	1	79	0	0
100045	0	0	0	0	0	0	8	1781	3	65
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	259	0	0	0	0	1	2758	0	0
8458110010	0	0	0	0	0	0	4	1253	0	0
110030	0	0	14	724	4	197	0	0	4	159
110050	2	610	1	72	1	186	0	0	0	0
110090	0	0	0	0	0	0	2	498	0	0
190030	0	0	94	716	36	524	0	0	139	1335
190050	4	421	33	258	1	101	1	292	0	0
190070	3	100	0	0	0	0	0	0	0	0
190090	0	0	18	48	6	88	1	4	39	142
911060	2	270	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	3	177	0	0	0	0	0	0	0	0
991050	1	221	0	0	0	0	0	0	0	0
995090	5	804	2	151	8	162	3	299	2	7
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	15	0	0
290040	0	0	0	0	0	0	1	3	0	0
290050	0	0	3	25	0	0	0	0	8	62
290070	0	0	0	0	0	0	3	40	1	5
290090	0	0	0	0	0	0	4	77	2	6
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	2	125
310070	0	0	0	0	0	0	1	110	0	0
390040	0	0	0	0	0	0	0	0	5	45
390050	0	0	1	3	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	12	53	0	0	1	257	1	51
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	30	230	5	163	0	0	6	81
590030	0	0	146	790	0	0	0	0	56	202
610080	0	0	23	438	3	234	5	517	10	72
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	1	20	0	0	1	629	3	41
690090	0	0	15	68	1	5	4	245	3	547
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	9	252	0	0
8460110080	0	0	0	0	2	1798	0	0	0	0
190010	0	0	25	69	0	0	18	257	0	0
190050	4	280	139	1135	6	113	11	1175	15	175
210080	6	547	0	0	2	1269	9	437	0	0
290010	2	173	0	0	8	152	0	0	10	98
290030	1	42	0	0	0	0	1	397	0	0
290050	3	253	19	69	8	121	122	2622	4	66
310080	0	0	3	8	0	0	12	300	2	144
390050	6	46	36	149	26	189	11	647	8	79
400060	0	0	0	0	3	147	2	225	0	0
400080	0	0	0	0	7	106	6	329	0	0
900060	0	0	0	0	0	0	0	0	3	62
900080	2	242	0	0	10	46	8	474	13	143
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	26	268	0	0	1	3	5	203	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	43	296	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	685	0	0	1	37	3	29	6	66
500050	0	0	6	89	0	0	0	0	0	0
500090	1	4	5	25	13	95	46	1062	23	188
9000000001	1	79	0	0	5	53	1	88	13	52
9800000001	6	48	19	27	19	702	14	441	25	225
9900000001	53	48	57173	5505	241	144	505	256	13492	877
Month Tot	158	7324	57854	12444	452	8526	870	18461	13928	5834
Y-T-D Tot	820	31590	271444	55424	2566	44157	8223	100308	50659	28887
NC YTD Tot	182	11254	464	13713	342	28422	343	46662	204	8811

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

May 90

RELEASED: August 1, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	179	9814	55	1986
8462100030	Headers and upsetters, including cold headers	76	6927	7	2016
100050	Forging or die stamping machines, and hammers, n.e.c.	346	20289	39	1373
210080	Bending, folding, straight. or flat. mach., incl presses, NC	284	13434	76	4405
290030	Press brakes, non-NC	121	3314	24	759
290040	Bending rolls, non-NC	53	1547	15	445
290050	Bending, folding, straight., or flat., n.e.c., non-NC	549	15570	130	2201
310080	Shearing machines, NC	31	1816	6	458
390050	Shearing machines, non-NC	238	5797	54	1129
410080	Punching or notching mach., incl. comb. punch & shear, NC	153	15978	30	2431
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	327	5529	78	1551
910060	Hydraulic presses, NC	10	3337	1	616
910090	Hydraulic presses, non-NC	922	7189	307	558
990030	Presses, n.e.c., NC	42	3586	1	34
990035	Mechanical transfer presses, non-NC	3	2169	1	100
990045	Mechanical presses, n.e.c., non-NC	51	1263	1	8
990060	Presses, n.e.c., non-NC	327	11053	99	2915
8463100080	Draw benches for bars, tubes, profiles, wire or the like	26	1615	9	816
200080	Thread rolling machines	42	2148	3	138
300080	Machines for working wire	699	33120	90	4536
900080	Metal forming machine tools, n.e.c.	201	10130	41	3711
9800000002	Used or rebuilt machine tools	593	8767	307	2154
9900000002	Machine tools valued at less than $2,500	6358	2582	1312	494
	Forming Total			2686	34834
	Y-T-D Forming Total	11631	186976		
	NC Y-T-D Forming Total	520	38152		
	Cutting and Forming Totals:				
	Monthly Total			85661	159844
	Y-T-D Total	396735	892705		
	NC Y-T-D Total	5309	487616		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	236320	0	43070
2000000000	Parts for working rubber or plastics - heading 8477	0	139980	0	25313
2710003070	Quenching or cutting oils	0	167	0	91
8428900010	Industrial robots for lifting, handling, loading or unload	1151	20804	104	3443
8431390080	Parts industrial robots, handling and loading - heading 8428	0	36984	0	5477
8456101010	Laser, light or photon beam for working metal, NC	80	14381	17	2622
101020	Laser, light or photon beam for working metal, non-NC	41	1439	7	869
105000	Laser, light or photon beam for other materials	57	2892	6	1094
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22	0	0
205000	Ultrasonic processes for working other materials	5	187	1	3
8477103000	Injection molding mach., for manufacturing shoes	92	2015	18	504
106010	Injection molding mach., for rubber or oth. thermosetting	373	30558	55	6407
106050	Injection molding mach., for thermoplastics	1133	107720	187	17590
200010	Extruders for rubber or other thermosetting materials	86	5999	22	639
200050	Extruders for processing thermoplastics	427	26291	111	4654
300000	Blow molding machines	174	16151	22	2417
400000	Vacuum-molding and other thermoforming machines.	74	1990	10	144
510010	Machines for molding or retreading pneumatic tires	302	25263	35	3198
510090	Machines for molding or otherwise forming inner tubes	115	7299	18	1341
590000	Machines for molding or otherwise forming n.e.c.	472	31324	217	3775
800000	Machines for working rubber or plastics n.e.c.	3757	48510	770	7884
8479899040	Industrial robots, n.e.c.	9706	32104	638	7693
908040	Industrial robot parts	0	13531	0	2489
8537100030	Numerical controls for controlling machine tools	6885	22863	1024	6950
9024100000	Machines and appliances for testing metals	0	5473	0	1781
9031100000	Machines for balancing mechanical parts	0	4448	0	2244
300000	Profile projectors	0	2427	0	402
9032810020	Industrial process control instr., hydraulic	63621	821	9591	197
810060	Industrial process control instr., pneumatic	62143	1941	13252	334

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	21	877	0	0	13	337
8462100030	1	1273	0	0	0	0	0	0	2	459
100050	0	0	0	0	4	24	0	0	4	57
210080	1	685	0	0	7	316	0	0	2	218
290030	0	0	0	0	23	750	0	0	0	0
290040	0	0	0	0	0	0	1	367	9	28
290050	1	4	0	0	17	221	40	132	10	96
310080	1	44	0	0	1	9	0	0	0	0
390050	7	136	0	0	6	224	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	5	363	0	0	26	333
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	5	328	0	0	20	5
990030	0	0	0	0	0	0	0	0	1	34
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	8	0	0	0	0
990060	0	0	0	0	37	1953	8	31	25	215
8463100080	0	0	0	0	6	750	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	25	1521	0	0	7	42	2	54	8	461
900080	0	0	0	0	2	119	1	7	4	375
9800000002	4	85	0	0	86	246	0	0	9	1077
9900000002	50	6	0	0	8	1	0	0	0	0
Month Tot	105	3761	0	0	236	6230	52	590	133	3695
Y-T-D Tot	298	11749	0	0	869	24851	187	971	716	20246
NC YTD Tot	26	2872	0	0	23	689	2	20	46	1001
C&F Month	108	4109	378	1606	383	9535	224	3261	1959	5536
C&F Y-T-D	324	12689	1218	7058	1632	35591	965	11569	17933	45059
C&F NC YTD	28	2982	2	464	47	3299	45	5028	102	7161

Other Manufacturing Technology

1000000000	0	230	0	76	0	2967	0	1160	0	2644
2000000000	0	69	0	0	0	5343	0	2912	0	1490
2710003070	0	0	0	0	0	79	0	0	0	0
8428900010	0	0	0	0	6	78	0	0	0	0
8431390080	0	56	0	23	0	1013	0	101	0	64
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	6	492
106010	0	0	0	0	6	255	6	1017	3	197
106050	0	0	0	0	46	5498	0	0	6	3396
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	17	506	0	0	1	93
300000	0	0	0	0	6	281	1	692	0	0
400000	0	0	0	0	0	0	0	0	7	112
510010	0	0	0	0	9	922	0	0	5	123
510090	0	0	0	0	2	322	0	0	0	0
590000	0	0	0	0	8	1262	0	0	3	51
800000	9	77	0	0	36	717	1	201	11	157
8479899040	0	0	0	0	3	70	0	0	1	31
908040	0	3	0	0	0	30	0	32	0	28
8537100030	0	0	0	0	0	0	0	0	32	32
9024100000	0	4	0	0	0	194	0	3	0	83
9031100000	0	0	0	0	0	0	0	0	0	7
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	3	17	0	0	0	0
810060	0	0	0	0	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	724	0	0	0	0	0	0	0	0
8462100030	4	284	0	0	0	0	0	0	0	0
100050	13	692	0	0	0	0	0	0	0	0
210080	44	1880	0	0	0	0	0	0	0	0
290030	1	9	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	10	875	0	0	0	0	1	3	8	226
310080	2	219	0	0	0	0	0	0	0	0
390050	9	517	0	0	0	0	0	0	1	61
410080	11	1136	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	27	248	0	0
910060	1	616	0	0	0	0	0	0	0	0
910090	6	159	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	9	504	0	0	0	0	1	3	5	96
8463100080	2	25	0	0	0	0	0	0	0	0
200080	1	32	0	0	0	0	2	106	0	0
300080	38	1658	0	0	0	0	0	0	3	12
900080	22	1974	0	0	0	0	1	389	2	148
9800000002	4	84	0	0	0	0	0	0	2	43
9900000002	219	43	4	4	0	0	36	31	1	2
Month Tot	398	11430	4	4	0	0	68	781	22	589
Y-T-D Tot	1842	70796	11	124	7	53	235	2290	382	3577
NC YTD Tot	244	18442	0	0	0	0	0	0	3	439
C&F Month	5519	67454	1476	1828	122	1974	288	2833	274	1364
C&F Y-T-D	28002	428669	2641	8751	504	9801	1267	12485	1453	8347
C&F NC YTD	3121	331858	69	4850	99	5127	76	1412	9	1884

Other Manufacturing Technology

1000000000	0	11475	0	106	0	607	0	191	0	1234
2000000000	0	3610	0	9	0	67	0	98	0	103
2710003070	0	11	0	0	0	0	0	0	0	0
8428900010	63	1094	0	0	0	0	0	0	11	843
8431390080	0	322	0	8	0	0	0	29	0	108
8456101010	16	2577	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	1	3	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	25	4070	0	0	0	0	0	0	0	0
106050	74	5631	3	97	7	116	0	0	0	0
200010	9	517	0	0	0	0	0	0	0	0
200050	18	718	0	0	0	0	0	0	0	0
300000	7	1061	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	15	2073	0	0	0	0	0	0	0	0
510090	0	0	1	60	0	0	0	0	0	0
590000	11	1738	0	0	0	0	0	0	0	0
800000	67	3386	500	60	0	0	0	0	3	33
8479899040	593	4697	2	49	0	0	1	42	8	390
908040	0	924	0	0	0	0	0	0	0	89
8537100030	939	6868	0	0	0	0	0	0	0	0
9024100000	0	727	0	0	0	0	0	0	0	69
9031100000	0	1929	0	7	0	0	0	10	0	2
300000	0	163	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	2500	8	0	0	0	0	986	140

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	12	2	29	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	2	2	8	4	374	3	10	8	207
210080	4	116	0	0	0	0	14	938	4	251
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	4	38	0	0	0	0	1	13
290050	0	0	2	12	3	72	24	463	14	95
310080	1	185	0	0	0	0	0	0	1	2
390050	0	0	2	10	24	126	0	0	5	55
410080	1	354	0	0	0	0	17	726	1	214
490050	6	309	1	5	12	240	1	53	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	267	39	0	0	1	2	8	25
990030	0	0	0	0	0	0	0	0	0	0
990035	1	100	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	5	14	1	24	8	76
8463100080	0	0	0	0	0	0	1	42	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	3	0	0	2	498	4	288	0	0
900080	1	18	0	0	0	0	4	619	4	62
9800000002	108	42	0	0	87	208	5	356	2	13
9900000002	44	12	526	236	5	11	75	12	344	135
Month Tot	168	1142	804	349	144	1554	152	3561	400	1147
Y-T-D Tot	469	10822	3345	4576	483	5888	1028	24432	1759	6600
NC YTD Tot	16	2125	5	807	5	142	123	8904	27	2711
C&F Month	326	8466	58658	12792	596	10080	1022	22022	14328	6982
C&F Y-T-D	1289	42413	274789	60000	3049	50045	9251	124741	52418	35487
C&F NC YTD	198	13373	469	14520	347	28564	466	55566	231	11521

Other Manufacturing Technology

1000000000	0	2484	0	1282	0	3433	0	11578	0	3600
2000000000	0	407	0	549	0	661	0	8503	0	1491
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	2	75	0	0	4	16	1	115	17	1222
8431390080	0	668	0	153	0	1039	0	984	0	909
8456101010	1	45	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	365	4	256	1	135
105000	1	303	0	0	1	779	1	2	3	10
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	12	12	0	0
106010	0	0	6	222	0	0	1	97	8	549
106050	5	476	10	373	5	266	20	1179	11	558
200010	0	0	4	68	0	0	9	54	0	0
200050	0	0	12	350	14	304	41	2238	8	445
300000	0	0	0	0	0	0	8	382	0	0
400000	0	0	0	0	0	0	3	32	0	0
510010	0	0	0	0	6	80	0	0	0	0
510090	0	0	0	0	8	602	3	188	4	169
590000	142	35	2	67	2	131	24	326	25	166
800000	10	880	11	146	10	292	106	1893	6	42
8479899040	1	30	0	0	7	325	9	572	13	1487
908040	0	78	0	91	0	241	0	906	0	69
8537100030	0	0	0	0	5	35	1	10	47	6
9024100000	0	36	0	0	0	68	0	533	0	65
9031100000	0	0	0	0	0	12	0	78	0	198
300000	0	19	0	0	0	125	0	68	0	26
9032810020	497	29	0	0	1500	8	2	6	7589	137
810060	0	0	8612	66	781	39	16	12	357	69

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	363	1197	6	150	369	1347
Bulgaria	0	0	0	0	0	0
Czechoslovakia	8	107	0	0	8	107
Denmark	53	149	5	72	58	222
East Germany	62	224	0	0	62	224
Finland	4	105	5	245	9	350
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	124	155	12	293	136	448
Norway	0	0	1	45	1	45
Poland	45	497	0	0	45	497
Portugal	14	72	9	113	23	185
Romania	1	19	0	0	1	19
USSR	0	0	0	0	0	0
Yugoslavia	74	821	0	0	74	821
Oth Europe	3	33	1	2	4	35
TOTAL	4704	45378	883	16594	5587	61972
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	4	21	69	125	73	145
Oth N & C Am.	0	0	0	0	0	0
TOTAL	151	3325	305	6355	456	9680
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	378	1606	0	0	378	1606
OCEANIA						
Australia	4	711	2	18	6	729
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	4	711	2	18	6	729

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13144	1447	283	20	13427	1468
Hong Kong	1	3	3	13	4	15
India	24	274	0	0	24	274
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	0	0	4	52	4	52
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	77738	73989	1496	11868	79234	85857
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
° Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.